

LISTING OF THE CLAIMS

At the time of the Action:

Pending Claims: 1-82

Withdrawn Claims: None

Canceled Claims: None

After this Response:

Pending Claims: 1-82

Amended Claims: 1, 19, 33, 36, 39, 43, 48, 51, 54, 57, 60, and 78

Withdrawn: None

Canceled Claims: None

New Claims: None

1. (Currently Amended) A method, comprising:

receiving data of a multimedia presentation, wherein the data includes a first plurality of streams;

multicasting a second plurality of streams that includes a dedicated announcement stream and a first stream selected from the first plurality of streams, wherein the announcement stream being multicast on a dedicated announcement channel and includes presentation description information of the multimedia presentation, and the selecting a first stream from the first plurality of streams being based at least in part on a comparison between the presentation description information and multimedia resources of a client to determine an appropriate channel to receive the selected first stream; and

mapping the announcement stream and the first stream selected from the first

plurality of streams to a plurality of channels described in the presentation description information.

2. (Original) The method of claim 1, wherein the second plurality of streams are multicast on different channels.

3. (Original) The method of claim 2, wherein the second plurality of streams is multicast on predetermined different channels.

4. (Original) The method of claim 3, wherein the predetermined different channels comprise predetermined logical addresses.

5. (Original) The method of claim 4, wherein the predetermined logical addresses are predetermined internet protocol (IP) addresses with predetermined ports.

6. (Original) The method of claim 3, wherein the predetermined different channels comprise predetermined ports of a logical address.

7. (Original) The method of claim 1, wherein the second plurality of streams further comprises a second stream that includes a plurality of units of data of the multimedia presentation, the plurality of units each comprising a preselected number of previous subunits of data of the multimedia presentation.

8. (Previously Presented) The method of claim 7, wherein each unit of the plurality of units includes a key frame.

9. (Original) The method of claim 1, wherein the second plurality of streams further comprises multiple streams of video data having different bit rates.

10. (Original) The method of claim 1, wherein the second plurality of streams further comprises multiple streams of audio data having different bit rates.

11. (Original) The method of claim 1, wherein the second plurality of streams further comprises multiple streams of multimedia data in different languages.

12. (Original) The method of claim 1, wherein the second plurality of streams further comprises a stream of data to be used by an application running on a client receiving the second plurality of streams.

13. (Original) The method of claim 1, wherein the announcement stream includes error correction information.

14. (Original) The method of claim 1, wherein the announcement stream includes security information.

15. (Original) The method of claim 1, wherein the announcement stream is multicast on an out-of-band channel.

16. (Original) The method of claim 1, wherein the announcement stream is multicast on an in-band channel.

17. (Previously Presented) The method of claim 16, wherein the announcement stream is multicast to conform to a real-time transport control protocol (RTCP), the announcement stream is interspersed in-band within a stream of multimedia presentation data that are multicast to conform to a real-time transport protocol (RTP).

18. (Original) The method of claim 16, wherein the announcement stream is multicast so that announcement stream data is included in a packet containing multimedia presentation data.

19. (Currently Amended) A computer-accessible medium storing computer-executable instructions to perform operations, comprising:

receiving data of a multimedia presentation, wherein the data includes a first plurality of streams;

multicasting a second plurality of streams that includes a dedicated announcement stream and a first stream selected from the first plurality of streams, wherein the announcement stream being multicast on a dedicated announcement channel and includes presentation description information of the multimedia presentation, and the selecting a first stream from the first plurality of streams being based at least in part on a comparison between the presentation description information and multimedia resources of a client to determine an appropriate channel to receive the selected first stream; and

map the announcement stream and the first stream selected from the plurality of first streams to a plurality of channels described in the presentation description information.

20. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams are multicast on different channels.

21. (Original) The computer-accessible medium of claim 20, wherein the second plurality of streams is multicast on predetermined different channels.

22. (Original) The computer-accessible medium of claim 21, wherein the predetermined different channels comprise predetermined logical addresses.

23. (Original) The computer-accessible medium of claim 22, wherein the predetermined logical addresses are predetermined Internet protocol (IP) addresses with predetermined ports.

24. (Previously Presented) The computer-accessible medium of claim 21, wherein the predetermined different channels comprise predetermined ports of a logical address.

25. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams further comprises a second stream that includes a plurality of units of data of the multimedia presentation, the plurality of units each comprising a preselected number of previous subunits of data of the multimedia presentation.

26. (Previously Presented) The computer-accessible medium of claim 25, wherein each unit of the plurality of units includes a key frame.

27. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams further comprises multiple streams of video data having different bit rates.

28. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams further comprises multiple streams of audio data having different bit rates.

29. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams further comprises multiple streams of multimedia data in different languages.

30. (Original) The computer-accessible medium of claim 19, wherein the second plurality of streams further comprises a stream of data to be used by an application running on a client receiving the second plurality of streams.

31. (Original) The computer-accessible medium of claim 19, wherein announcement stream includes error correction information.

32. (Original) The computer-accessible medium of claim 19, wherein announcement stream includes security information.

33. (Currently Amended) A computer-accessible medium storing computer-executable instructions to perform operations comprising:
receiving data of a multimedia presentation, wherein the data includes a first

plurality of streams;

multicasting a second plurality of streams that includes a first stream selected from the first plurality of streams and a second stream that includes a plurality of units of data of the multimedia presentation, the plurality of units each comprising a preselected number of previous subunits of data of the multimedia presentation; and

mapping a dedicated announcement stream, that presents description information of the multimedia presentation, [[and]] the first stream selected from the first plurality of streams, and the second stream to a plurality of channels, the description information of the multimedia presentation being used by a client to determine whether at least one of the plurality of channels is appropriate for the selected first stream based on multimedia resources of the client.

34. (Original) The computer-accessible medium of claim 33, wherein each unit of the plurality of units includes a key frame.

35. (Original) The computer-accessible medium of claim 33, wherein the plurality of units of the second stream each includes enough data to reduce the amount of time needed by a multimedia player to begin playback of the multimedia presentation.

36. (Currently Amended) A method, comprising:

receiving, by a server, data of a multimedia presentation, wherein the data includes a first plurality of streams;

multicasting, by the server, a second plurality of streams that includes a first stream selected from the first plurality of streams and a second stream that includes a plurality of units of data of the multimedia presentation, the plurality of units each

comprising a preselected number of previous subunits of data of the multimedia presentation; and

mapping, by the server, a dedicated announcement stream, that presents description information of the multimedia presentation, [[and]] the first stream selected from the first plurality of streams, and the second stream to a plurality of channels, the description information of the multimedia presentation being used by a client to determine whether at least one of the plurality of channels is appropriate for the selected first stream based on multimedia resources of the client.

37. (Original) The method of claim 36, wherein each unit of the plurality of units includes a key frame.

38. (Original) The method of claim 36, wherein the plurality of units of the second stream each includes enough data to reduce the amount of time needed by a multimedia player to begin playback of the multimedia presentation.

39. (Currently Amended) A method, comprising:

receiving, by a server, data of a multimedia presentation, wherein the data includes a first plurality of streams;

multicasting, by the server, a second plurality of streams that includes first and second streams related to information contained in the first plurality of streams, wherein the first and second streams are multicast in preselected channels;

wherein the multicasting a second plurality of streams includes selecting a first stream from the first plurality of streams, the selecting a first stream being based at least in part on a comparison between presentation description information included in a

dedicated announcement stream and multimedia resources of a client to determine an appropriate channel to receive the selected first stream; and

mapping, by the server, ~~[[a]] the dedicated announcement stream, that presents description information of the multimedia presentation, [[and]] the first stream selected from the first plurality of streams,~~and the second stream to a plurality of channels.

40. (Original) The method of claim 39, wherein the predetermined different channels comprise predetermined logical addresses.

41. (Original) The method of claim 39, wherein the predetermined different channels comprise predetermined ports of an Internet protocol (IP) address.

42. (Previously Presented) The method of claim 39, wherein the first stream is the announcement stream containing presentation description information.

43. (Currently Amended) A computer-accessible medium having computer-executable instructions to perform operations comprising:

receiving data of a multimedia presentation, wherein the data includes a first plurality of streams;

multicasting a second plurality of streams that includes first and second streams related to information contained in the first plurality of streams, wherein the first and second streams are multicast in preselected channels,

wherein the multicasting a second plurality of streams includes selecting a first stream from the first plurality of streams,the selecting a first stream being based at least in part on a comparison between presentation description information included in a

dedicated announcement stream and multimedia resources of a client to determine an appropriate channel to receive the selected first stream; and mapping ~~[[a]] the dedicated announcement stream, that presents description information of the multimedia presentation, [[and]]~~ the first stream selected from the first plurality of streams, and the second stream to a plurality of channels.

44. (Original) The computer-accessible medium of claim 43, wherein the predetermined different channels comprise predetermined logical addresses.

45. (Original) The computer-accessible medium of claim 44, wherein the predetermined logical addresses are predetermined Internet protocol (IP) addresses with predetermined ports.

46. (Original) The computer-accessible medium of claim 43, wherein the predetermined different channels comprise predetermined ports of a logical address.

47. (Previously Presented) The computer-accessible medium of claim 44, wherein the first stream is the announcement stream containing presentation description information.

48. (Currently Amended) A method, comprising:
receiving, by a client computing device, a first stream from a preselected first channel, wherein the first stream comprises presentation description information related to a multimedia presentation being multicast;
receiving, by a client computing device, a second stream on a second preselected

channel concurrently with receiving the first stream on the preselected first channel, wherein the second stream comprises a stream of multimedia data of the multimedia presentation being multicast, the second stream being selected based on a comparison between the received presentation description information and multimedia resources of the client; and

mapping, by a server, the first stream from the preselected first channel and the second stream from the second preselected channel to a plurality of channels.

49. (Previously Presented) The method of claim 48, further comprising:

terminating reception of the second stream; and

selectively receiving a third stream on a third channel selected in response to receiving presentation description information from the first stream, wherein the third stream comprises another stream of multimedia data of the multimedia presentation being multicast.

50. (Previously Presented) The method of claim 48, further comprising continuing to receive the second stream in response to receiving presentation description information from the first stream indicating that the second stream meets preselected criteria.

51. (Currently Amended) A computer-accessible medium storing computer-executable instructions that, when executed, cause one or more processors to perform operations, comprising:

receiving a first stream from a preselected first channel, wherein the first stream comprises presentation description information related to a multimedia presentation

being multicast;

receiving a second stream on a second preselected channel concurrently with receiving the first stream on the preselected first channel, wherein the second stream comprises a stream of multimedia data of the multimedia presentation being multicast, the second stream being selected based on a comparison between the received presentation description information and multimedia resources of a client; and

mapping the first stream from the preselected first channel and the second stream from the second preselected channel to a plurality of channels.

52. (Previously Presented) The computer-accessible medium of claim 51, wherein the operations further comprise:

terminating reception of the second stream; and

selectively receiving a third stream on a third channel selected in response to receiving presentation description information from the first stream, wherein the third stream comprises another stream of multimedia data of the multimedia presentation being multicast.

53. (Previously Presented) The computer-accessible medium of claim 51, wherein the operations further comprise:

continuing to receive the second stream in response to presentation receiving description information from the first stream indicating that the second stream meets preselected criteria.

54. (Currently Amended) A method, comprising:

receiving, by a client computing device, a unit of data from a preselected first

channel, wherein the first channel transports a plurality of units of data of a multimedia presentation being multicast, wherein the plurality of units each comprise a preselected number of previous subunits of data of the multimedia presentation being multicast;

terminating, by the client computing device, reception of data from the first preselected channel;

receiving, by a client computing device, a second stream on a second channel, wherein the second stream comprises a stream of multimedia of the multimedia presentation being multicast; and

mapping, by a server, at least one of the plurality of units of data and the second stream to a plurality of channels.

55. (Original) The method of claim 54, wherein the second channel is selected in response to presentation description information received from an announcement channel.

56. (Original) The method of claim 54, wherein the second channel is preselected.

57. (Currently Amended) A computer-accessible medium storing computer-executable instructions that, when executed, cause one or more processors to perform operations comprising:

receiving a unit of data from a preselected first channel, wherein the first channel transports a plurality of units of data of a multimedia presentation being multicast, wherein the plurality of units each comprise a preselected number of previous subunits of data of the multimedia presentation being multicast;

terminating reception of data from the first preselected channel;
receiving a second stream on a second channel, wherein the second stream comprises a stream of multimedia of the multimedia presentation being multicast; and
mapping at least one of the plurality of units of data and the second stream to a plurality of channels.

58. (Previously Presented) The computer-accessible medium of claim 57, wherein the second channel is selected in response to receiving presentation description information from an announcement channel.

59. (Previously Presented) The computer-accessible medium of claim 57, wherein the operations further comprise preselecting the second channel.

60. (Currently Amended) A system, comprising:
a first interface to receive a first plurality of streams of a multimedia presentation;
an announcement generator to provide an announcement stream containing presentation description information regarding the multimedia presentation;
a mapper to map the announcement stream and a first stream selected from the first plurality of streams to a plurality of channels, the first stream being selected based on a comparison between the presentation description information and multimedia resources of a client;

a second interface to multicast a second plurality of streams over a network, wherein the second plurality of streams comprises the mapped announcement stream and the mapped first stream; and

a physical device that multicasts the second plurality of streams over the network.

61. (Original) The system of claim 60, wherein the second plurality of streams is multicast on predetermined different channels.

62. (Original) The system of claim 61, wherein the predetermined different channels comprise predetermined logical addresses.

63. (Original) The system of claim 62, wherein the predetermined logical addresses each comprise an Internet protocol (IP) address and a port.

64. (Original) The system of claim 61, wherein the predetermined different channels comprise predetermined ports of a logical address.

65. (Original) The system of claim 61, wherein the second plurality of streams further comprises a second stream that when multicast includes a plurality of units of data of the multimedia presentation, the plurality of units each comprising a preselected number of previous subunits of data of the multimedia presentation.

66. (Previously Presented) The system of claim 65, wherein the second stream includes a key frame.

67. (Original) The system of claim 61, wherein the second plurality of streams further comprises streams of video data having different bit rates selected from the first plurality of streams.

68. (Original) The system of claim 61, wherein the second plurality of streams

further comprises multiple streams of audio data having different bit rates selected from the first plurality of streams.

69. (Original) The system of claim 61, wherein the second plurality of streams further comprises multiple streams of multimedia data in different languages selected from the first plurality of streams.

70. (Original) The system of claim 61, wherein the second plurality of streams further comprises a stream of data to be used by an application running on a client receiving the second plurality of streams.

71. (Original) The system of claim 61, wherein the announcement stream includes error correction information.

72. (Original) The system of claim 61, wherein the announcement stream includes security information.

73. (Original) The system of claim 61, wherein the announcement stream is multicast on an out-of-band channel.

74. (Original) The system of claim 61, wherein the announcement stream is multicast on an in-band channel.

75. (Previously Presented) The system of claim 74, wherein the announcement stream is multicast to conform to a real-time transport control protocol (RTCP), the

announcement stream is interspersed in-band within a stream of multimedia presentation data that are multicast to conform to a real-time transport protocol (RTP).

76. (Original) The system of claim 74, wherein the announcement stream is multicast so that announcement stream data is included in a packet containing multimedia presentation data.

77. (Original) A computer-accessible medium containing components as recited in claim 61.

78. (Currently Amended) A system, comprising:
means for receiving a first plurality of streams of a multimedia presentation;
means for generating an announcement stream containing presentation description information regarding the multimedia presentation;
means for mapping the announcement stream and a first stream selected from the first plurality of streams to one or more channels of a plurality of channels, the first stream being selected based on a comparison between the presentation description information and multimedia resources of a client;
means for multicasting [[the]] a second plurality of streams over a network, wherein the second plurality of streams comprises the mapped announcement and first streams; and
means for multicasting the second plurality of streams from a physical device.

79. (Original) The system of claim 78, wherein the second plurality of streams is multicast on predetermined different channels.

80. (Original) The system of claim 79, further comprising:

means for providing a plurality of units of data of the multimedia presentation to the means for mapping, the plurality of units of data to be multicast as part of the second plurality of streams, wherein the plurality of units when multicast each comprises a preselected number of previous subunits of data of the multimedia presentation.

81. (Original) A computer-accessible medium containing components as recited in claim 78.

82. (Previously Presented) The method of Claim 1, further comprising configuring a server to support an announcement channel, a high quality video channel, a high quality audio channel, an application channel, one or more alternative language channels, and one or more alternative bit rate channels.